

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/628,568A  
Source: 1Fw16  
Date Processed by STIC: 5/9/05

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IFW16

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/628,568A

DATE: 05/09/2005  
 TIME: 12:24:07

Input Set : A:\Sequence Listing.txt  
 Output Set: N:\CRF4\05092005\I628568A.raw

3 <110> APPLICANT: Presta, Leonard G.  
 4 Snedecor, Bradley R.  
 6 <120> TITLE OF INVENTION: ALTERED POLYPEPTIDES WITH INCREASED HALF-LIFE  
 8 <130> FILE REFERENCE: 11669.161USC1  
 10 <140> CURRENT APPLICATION NUMBER: US 09/628,568A  
 11 <141> CURRENT FILING DATE: 2000-07-31  
 13 <150> PRIOR APPLICATION NUMBER: US 08/422,112  
 14 <151> PRIOR FILING DATE: 1995-04-14  
 16 <160> NUMBER OF SEQ ID NOS: 31  
 18 <170> SOFTWARE: PatentIn version 3.3  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 8  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Sequence comprising a salvage receptor binding epitope  
 28 <400> SEQUENCE: 1  
 30 His Gln Asn Leu Ser Asp Gly Lys  
 31 1 5  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 8  
 36 <212> TYPE: PRT  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Sequence comprising a salvage receptor binding epitope  
 42 <400> SEQUENCE: 2  
 44 His Gln Asn Ile Ser Asp Gly Lys  
 45 1 5  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 11  
 50 <212> TYPE: PRT  
 51 <213> ORGANISM: Artificial Sequence  
 53 <220> FEATURE:  
 54 <223> OTHER INFORMATION: Sequence comprising a salvage receptor binding epitope  
 56 <400> SEQUENCE: 3  
 58 Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro  
 59 1 5 10  
 62 <210> SEQ ID NO: 4  
 63 <211> LENGTH: 98  
 64 <212> TYPE: PRT  
 65 <213> ORGANISM: Homo sapiens  
 67 <400> SEQUENCE: 4  
 69 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys

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70 1 5 10 15  
73 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
74 20 25 30  
77 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
78 35 40 45  
81 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
82 50 55 60  
85 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
86 65 70 75 80  
89 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
90 85 90 95  
93 Arg Val  
97 <210> SEQ ID NO: 5  
98 <211> LENGTH: 98  
99 <212> TYPE: PRT  
100 <213> ORGANISM: Homo sapiens  
102 <400> SEQUENCE: 5  
104 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
105 1 5 10 15  
108 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
109 20 25 30  
112 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
113 35 40 45  
116 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
117 50 55 60  
120 Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr  
121 65 70 75 80  
124 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
125 85 90 95  
128 Thr Val  
132 <210> SEQ ID NO: 6  
133 <211> LENGTH: 98  
134 <212> TYPE: PRT  
135 <213> ORGANISM: Homo sapiens  
137 <400> SEQUENCE: 6  
139 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
140 1 5 10 15  
143 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
144 20 25 30  
147 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
148 35 40 45  
151 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
152 50 55 60  
155 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
156 65 70 75 80  
159 Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
160 85 90 95  
163 Arg Val  
167 <210> SEQ ID NO: 7

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168 <211> LENGTH: 98  
169 <212> TYPE: PRT  
170 <213> ORGANISM: Homo sapiens  
172 <400> SEQUENCE: 7  
174 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
175 1 5 10 15  
178 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
179 20 25 30  
182 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
183 35 40 45  
186 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
187 50 55 60  
190 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr  
191 65 70 75 80  
194 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
195 85 90 95  
198 Arg Val  
202 <210> SEQ ID NO: 8  
203 <211> LENGTH: 107  
204 <212> TYPE: PRT  
205 <213> ORGANISM: Homo sapiens  
207 <400> SEQUENCE: 8  
209 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
210 1 5 10 15  
213 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
214 20 25 30  
217 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
218 35 40 45  
221 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
222 50 55 60  
225 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
226 65 70 75 80  
229 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
230 85 90 95  
233 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
234 100 105  
237 <210> SEQ ID NO: 9  
238 <211> LENGTH: 105  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Homo sapiens  
242 <400> SEQUENCE: 9  
244 Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu  
245 1 5 10 15  
248 Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe  
249 20 25 30  
252 Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val  
253 35 40 45  
256 Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys  
257 50 55 60

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260 Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser  
 261 65 70 75 80  
 264 His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu  
 265 85 90 95  
 268 Lys Thr Val Ala Pro Thr Glu Cys Ser  
 269 100 105  
 272 <210> SEQ ID NO: 10  
 273 <211> LENGTH: 100  
 274 <212> TYPE: PRT  
 275 <213> ORGANISM: Artificial Sequence  
 277 <220> FEATURE:  
 278 <223> OTHER INFORMATION: Humanized Fab v1b variant  
 280 <400> SEQUENCE: 10  
 282 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Pro Lys  
 283 1 5 10 15  
 286 Asn Ser Ser Met Ile Ser Asn Thr Pro Ala Leu Gly Cys Leu Val Lys  
 287 20 25 30  
 290 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu  
 291 35 40 45  
 294 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu  
 295 50 55 60  
 298 Tyr Ser Leu Ser Ser Val Val Thr Val Pro His Gln Ser Leu Gly Thr  
 299 65 70 75 80  
 302 Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val  
 303 85 90 95  
 306 Asp Lys Arg Val  
 307 100  
 310 <210> SEQ ID NO: 11  
 311 <211> LENGTH: 7  
 312 <212> TYPE: PRT  
 313 <213> ORGANISM: Artificial Sequence  
 315 <220> FEATURE:  
 316 <223> OTHER INFORMATION: Sequence comprising a salvage receptor binding epitope  
 318 <400> SEQUENCE: 11  
 320 His Gln Ser Leu Gly Thr Gln  
 321 1 5  
 324 <210> SEQ ID NO: 12  
 325 <211> LENGTH: 29  
 326 <212> TYPE: DNA  
 327 <213> ORGANISM: Artificial Sequence  
 329 <220> FEATURE:  
 330 <223> OTHER INFORMATION: Oligonucleotide  
 332 <400> SEQUENCE: 12  
 333 gtgaccgtgc ctcaccagag cttgggcac 29  
 336 <210> SEQ ID NO: 13  
 337 <211> LENGTH: 53  
 338 <212> TYPE: DNA  
 339 <213> ORGANISM: Artificial Sequence  
 341 <220> FEATURE:

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342 <223> OTHER INFORMATION: Oligonucleotide  
344 <400> SEQUENCE: 13  
345 tggcaccctc ccctaagaac tcgagcatga tcagcaacac accggccctg ggc 53  
348 <210> SEQ ID NO: 14  
349 <211> LENGTH: 11  
350 <212> TYPE: PRT  
351 <213> ORGANISM: Artificial Sequence  
353 <220> FEATURE:  
354 <223> OTHER INFORMATION: Constant region sequence  
356 <400> SEQUENCE: 14  
358 Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala  
359 1 5 10  
362 <210> SEQ ID NO: 15  
363 <211> LENGTH: 13  
364 <212> TYPE: PRT  
365 <213> ORGANISM: Artificial Sequence  
367 <220> FEATURE:  
368 <223> OTHER INFORMATION: Sequence comprising a salvage receptor binding epitope  
370 <400> SEQUENCE: 15  
372 Ser Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro Ala  
373 1 5 10  
376 <210> SEQ ID NO: 16  
377 <211> LENGTH: 34  
378 <212> TYPE: DNA  
379 <213> ORGANISM: Artificial Sequence  
381 <220> FEATURE:  
382 <223> OTHER INFORMATION: Oligonucleotide  
384 <400> SEQUENCE: 16  
385 tggcaccctc caaatcgagc atcacagcgg ccct 34  
388 <210> SEQ ID NO: 17  
389 <211> LENGTH: 9  
390 <212> TYPE: PRT  
391 <213> ORGANISM: Artificial Sequence  
393 <220> FEATURE:  
394 <223> OTHER INFORMATION: Constant region sequence  
396 <400> SEQUENCE: 17  
398 Ser Ser Lys Ser Thr Ser Gly Gly Thr  
399 1 5  
402 <210> SEQ ID NO: 18  
403 <211> LENGTH: 6  
404 <212> TYPE: PRT  
405 <213> ORGANISM: Artificial Sequence  
407 <220> FEATURE:  
408 <223> OTHER INFORMATION: Constant region sequence  
410 <400> SEQUENCE: 18  
412 Ser Lys Ser Ser Ile Thr  
413 1 5  
416 <210> SEQ ID NO: 19  
417 <211> LENGTH: 44

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/628,568A

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Input Set : A:\Sequence Listing.txt

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